Alaska
Crop & Livestock
Reporting
Service

JUNE 1982

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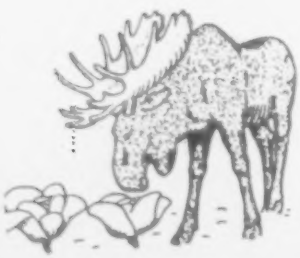
ALASKA

AGRICULTURAL



STATISTICS

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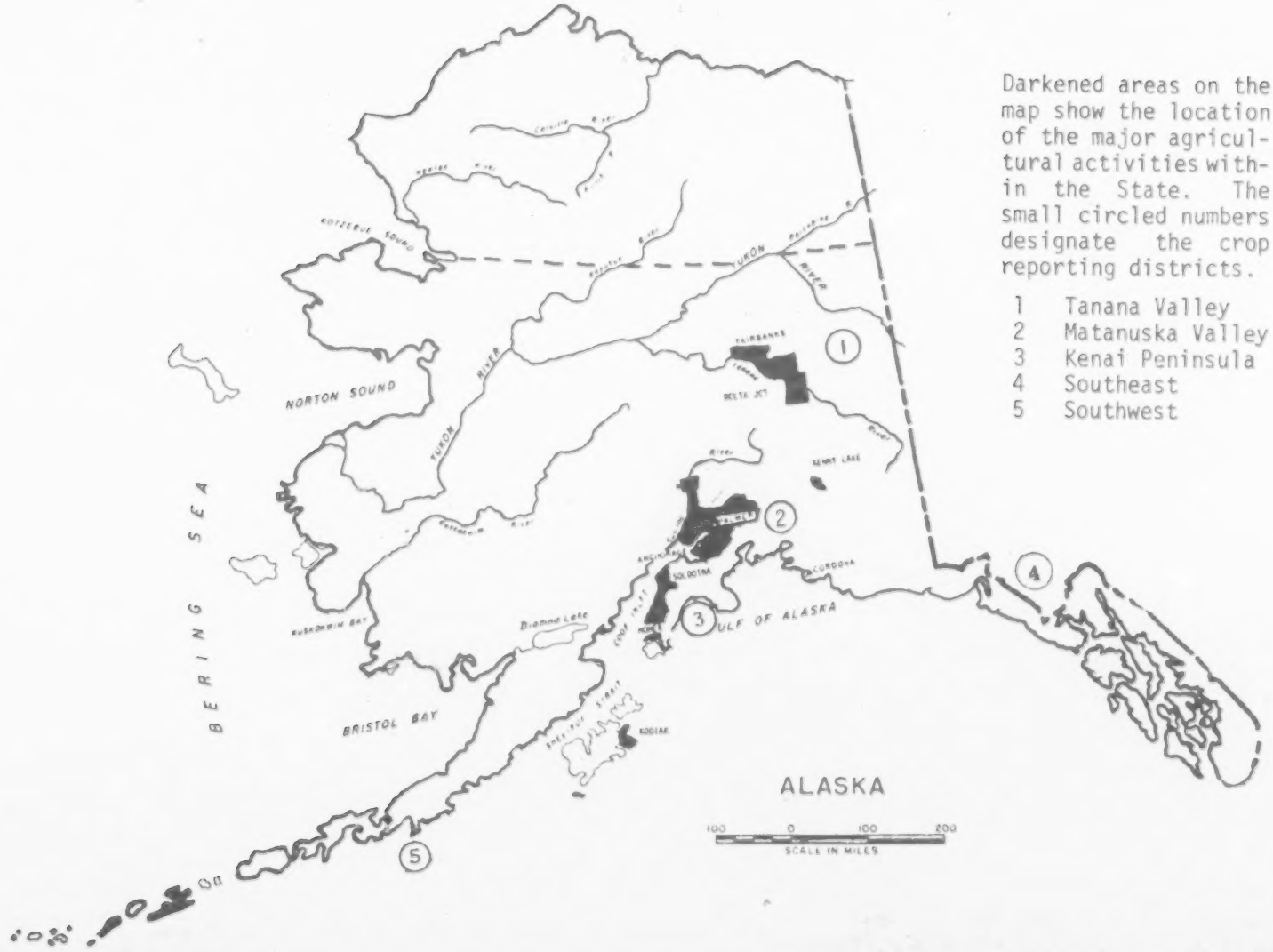

Darkened areas on the map show the location of the major agricultural activities within the State. The small circled numbers designate the crop reporting districts.

1 Tanana Valley
2 Matanuska Valley
3 Kenai Peninsula
4 Southeast
5 Southwest

ALASKA AGRICULTURAL STATISTICS

1982

COMPILED BY

ALASKA CROP AND LIVESTOCK REPORTING SERVICE

DeLon A. Brown
Statistician in Charge

P. O. Box 799
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Myrtle Harrington
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ISSUED COOPERATIVELY BY

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UNIVERSITY OF ALASKA
AGRICULTURAL EXPERIMENT STATION
James V. Drew
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ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF AGRICULTURE
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UNIVERSITY OF ALASKA
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James W. Matthews
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STATE OF ALASKA

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF AGRICULTURE

JAY S. HAMMOND, GOVERNOR

POUCH A
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PHONE: (907) 376-3276

Greetings to our Agricultural Friends:

Each year the Alaska Division of Agriculture, the University of Alaska Agricultural Experiment Station under the direction of Dr James Drew: the University of Alaska Extension Service headed by Dr James Matthews cooperates with the local and national offices of the Statistical Reporting Service to collect and publish statistical information about Alaska's agricultural industry. It is with pleasure I welcome you to this year's issue of Alaska Agricultural Statistics which summarizes the results.

In spite of the fine efforts of Delon Brown and his Alaskan staff, there are some statistics and materials we simply cannot include. For example, how can we collect and print a summary of the efforts expended by our farmers in combatting the weather, market problems, high interest rates, increasing fuel and machinery costs, decreasing prices for his product, and the threat (or reality) of insect and disease problems that threaten the profitability and in many cases the very existence of his livelihood. In these times of agricultural difficulty throughout the country, I would like to dedicate this particular issue to the farmer, his wife and his family. Without his efforts none of us could survive.

All of us concerned with the assembly of this publication wish you the best in the coming year.

Sincerely,

Domonic L Carney

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Director

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FOREWARD

This publication includes the latest information on agriculture in Alaska. It continues the series of "Alaska Agriculture Statistics" started in 1960 and summarizes data collected and published throughout the year.

These official State Crop and Livestock Statistics provide accurate and unbiased information necessary for planning and decision making in all phases of the agriculture industry.

This issue contains the preliminary estimates for 1981 along with comparable 1979 and 1980 data which have been subject to revision. Also included are pertinent historical estimates on the State level for comparison purposes.

The estimates presented in this publication were developed from the monthly, quarterly and annual surveys conducted each year by this office. The Alaska survey response has been excellent and I want to say a special "Thank You" to the many farmers, ranches, and agribusinessmen who assisted us by providing basic data about the State's agriculture. You can be assured we have kept our Pledge of Confidentiality of reported data. I would also like to thank the other Federal, State, and University Offices for their continued support.

As you review and use this report, please feel free to suggest any changes you believe would improve its future usefulness.

DELON A. BROWN
Statistician in Charge
Phone: (907) 745-4272

- -

REPORTS AVAILABLE FROM: 1/ Alaska Crop & Livestock Reporting Service
P. O. Box 799
Palmer, AK 99645

____ *Alaska Farm Reporter* (Monthly)
Includes milk and egg production, potato stocks, crop production and livestock inventory.

____ *Alaska Agriculture Statistics* (Annual)
Area Estimates - Crop, livestock and values.

____ *Crop Weather* (Weekly)
(May 1 - October 1) - Planting and harvesting progress, crop development progress and weather data.

1/ After July 1, 1982, all releases can be purchased by subscription.

"N O R T H T O T H E F U T U R E"

Alaska is one-fifth the size of continental United States (see back cover); is as large as Texas, California and Montana combined; has 33,000 miles of coastline, more than all of the "lower 48"; and has about 40 percent of the USA's fresh water. Alaska has 4 time zones--Pacific, Yukon, Alaska and Bering.

The total land area of Alaska is approximately 375 million acres, of which 1.3 million acres were listed as land in farms in the 1979 U.S. Census of Agriculture. Agriculture production is still confined to relatively small areas of the State's total acreage (see inside front cover). Most land in farms consist of grazing land leased from the State, the U.S. Government and Native Corporations.

Excluding acreage from the large grazing leases, approximately 138,000 acres are included in land in farms. Crops utilized nearly 38,000 acres in 1981, the balance was in pasture and uncleared lands. Very few farms have been entirely cleared of brush and trees. State land lotteries and sales since 1978 have placed over 125,000 acres of potential agriculture land into private ownership. Only a small percent of these acres will be in production in 1982. Most of this acreage is in the Delta Junction area with tracts of land ranging up to 3,200 acres. Alaska has over 20 million acres of potential tillable farmland, plus another 18 million suitable for potential livestock grazing. The number of farms in Alaska increased from 12 farms in 1900 to a peak of 623 in 1939, and declined to 290 farms on January 1, 1978. The number of farms in Alaska is once again starting to increase with an estimated 410 farms on January 1, 1982. The State population was estimated at 422,197 people in 1981.

CLIMATE OF THE PRINCIPAL AGRICULTURAL AREAS (at a glance) - ALASKA

Area	EXTREMES		AVERAGES FOR THE GROWING SEASON ONLY 1/					
	High °F	Low °F	Start Date	Length Days 1/	Max. °F	Min. °F	Rain Inches	Daylight 2/ Hours
TANANA VALLEY								
Fairbanks	96	-66	6/2	84	61	44	8	9-21
Big Delta	92	-63	6/5	81	59	44	9	10-20
MATANUSKA VALLEY								
Anchorage	86	-38	5/27	102	58	48	9	8-19
Palmer	90	-35	6/4	89	58	48	11	10-19
Matanuska	91	-41	6/6	83	58	48	10	9-19
KENAI PENINSULA								
Homer	81	-17	6/12	94	52	47	13	8-17
Kenai	87	-48	6/17	72	61	45	6	7-17
OTHER AREAS								
Kodiak	86	-8	6/2	110	54	45	26	5-15

1/ Based on temperatures of 40 and above. 2/ The first value is average actual hours of daylight; the second figure gives the possible hours of daylight.

AGRICULTURAL COMMODITIES PRODUCED - ALASKA (Selected Years)

Commodity		1960	1965	1970	1975	1980	1981
		- - - - - - - - - - thousand units - - - - - - - - - -					
		CROP PRODUCTION					
OATS FOR GRAIN	Bu.	79.8	42.0	22.5	16.8	26.1	21.7
BARLEY FOR GRAIN	Bu.	87.4	67.2	46.5	70.0	339.0	218.0
ALL SILAGE	Tons	20.2	21.7	13.6	15.2	12.4	12.8
GRAIN SILAGE	Tons	15.8	17.7	7.4	4.8	4.7	6.1
GRASS SILAGE	Tons	4.4	4.0	6.2	10.4	7.7	6.7
ALL HAY	Tons	10.5	8.8	9.4	21.4	15.0	20.2
GRAIN HAY	Tons	2.5	2.2	1.5	7.1	2.7	5.5
GRASS HAY	Tons	8.0	6.6	7.9	14.3	12.3	14.7
POTATOES	Cwt.	131.4	131.0	106.8	108.7	77.0	95.0
CABBAGE	Cwt. 1/	3.6	3.0	3.5	3.0	4.1	9.1
LETTUCE	Cwt. 1/	6.2	6.5	7.9	9.5	11.2	24.4 2/
CARROTS	Cwt.	7.6	2.9	1.5	2.0	3.3	3.7
OTHER VEGETABLES	Cwt.	2.8	2.1	3.0	1.8	4.6	4.7
		LIVESTOCK AND POULTRY PRODUCTS					
EGGS	Doz.	529.8	766.7	408.0	417.0	375.0	558.0
POULTRY	Lbs.	55.0	89.0	73.0	167.0	161.0	231.0
BEEF	Lbs.	357.0	824.0	963.0	664.0	767.0	749.0
PORK	Lbs.	151.0	205.0	135.0	150.0	232.0	293.0
MUTTON	Lbs.	12.0	28.0	52.0	30.0	18.0	18.0
WOOL	Lbs.	125.0	209.0	239.0	67.0	35.0	15.0
		- - - - - - - - - - million units - - - - - - - - - -					
MILK	Lbs.	20.4	20.7	18.6	16.8	12.5	13.4

1/ 1981 units in cartons. 2/ Head lettuce only

LIVESTOCK AND POULTRY ON FARMS (By Class) - ALASKA (Selected Years)

Class	Jan. 1 1961	Jan. 1 1965	Jan. 1 1970	Jan. 1 1975	Jan. 1 1980	Jan. 1 1982
	- - - - - - - - - - thousand head - - - - - - - - - -					
ALL CATTLE AND CALVES	7.3	8.3	8.7	9.7	8.4	9.2
Beef Cows	1.4	2.0	2.6	2.8	2.5	3.0
Milk Cows	2.8	2.6	1.7	1.6	1.1	1.1
Heifers 500 Pounds +	1.0	1.2	1.1	1.2	1.3	1.4
Beef Cow Replacement	.4	.5	.6	.6	.8	.9
Milk Cow Replacement	.6	.7	.5	.6	.5	.5
Steers 500 Pounds +	.6	.7	.8	.6	.4	.7
Bulls 500 Pounds +	.2	.2	.5	1.0	1.2	.8
Calves Under 500 Pounds	1.3	1.6	2.0	2.5	1.9	2.1
ALL SHEEP AND LAMBS	1.5	20.0	27.0	12.4	4.3	3.9
Lambs	4.0	4.0	5.0	2.0	.7	.6
Ewes 1 Year +	6.0	9.0	11.0	6.0	2.3	1.9
Wethers and Rams 1 Year +	5.0	7.0	11.0	4.4	1.3	1.4

	Jan. 1 1961	Jan. 1 1965	Dec. 1 1969	Dec. 1 1974	Dec. 1 1979	Dec. 1 1981
	- - - - - - - - - - thousand head - - - - - - - - - -					
ALL HOGS AND PIGS	1.0	1.4	1.1	1.2	1.1	2.8
Slaughter Hogs and Pigs	NA	1.1	.9	.9	.8	2.1
Breeding Hogs	NA	.3	.2	.3	.3	.7
ALL CHICKENS	42.0	39.0	30.0	30.0	26.0	37.0
HPLA	41.0	38.0	28.0	29.0	24.0	35.0
Other Chickens	1.0	1.0	2.0	1.0	2.0	2.0

VALUE OF PRODUCTION BY AREAS - ALASKA 1979-81 [1/]

Year	Tanana Valley	Matanuska Valley	Kenai Penin.	South-East	South-West	State Total
	- - - - - - - - - - - - - - - - dollars - - - - - - - - - - - - - - - -					
			CROPS			
1979	1,282,000	3,460,000	286,000	-	22,000	5,050,000
1980	1,927,500	3,501,000	373,000	-	60,000	5,861,500
1981	2,480,600	4,296,400	436,000	-	16,000	7,229,000
			LIVESTOCK AND POULTRY			
1979	494,500	3,072,400	197,100	21,600	316,400	4,102,000
1980	357,500	2,970,700	235,500	16,100	289,200	3,869,000
1981	633,000	3,256,500	398,100	19,200	356,200	4,663,000
			TOTAL			
1979	1,776,500	6,532,400	483,100	21,600	338,400	9,152,000
1980	2,285,000	6,471,700	608,500	16,100	349,200	9,730,500
1981	3,113,600	7,552,900	834,100	19,200	372,200	11,892,000

1/ Includes only crop and livestock commodities in this bulletin.

LAND IN FARMS AND FARM NUMBERS - ALASKA 1960-82

Year	Land In Farms	Total All Farms	Number of Farms: Cattle	Dairy	Chickens	Hogs	Sheep
	(000 Acres)						
1960	1,635	420	210	150	NA	NA	NA
1965	1,900	370	190	110	80	30	NA
1970	1,710	320	160	90	70	40	20
1975 [1/]	1,670	300	140	60	80	40	10
1980	1,520	370	150	60	100	60	20
1981	1,520	390	160	60	100	70	20
1982 [2/]	1,530	410					

1/ Farm redefined: Farms and ranches with annual sales of $1,000 or more.
2/ Preliminary.

FARM COMMODITY CASH RECEIPTS - ALASKA 1979-81

Item	1979	1980	1981 1/
TOTAL ALL COMMODITIES	11,971,000	11,653,000	13,022,800
Total Livestock Products	4,135,000	3,994,000	4,898,000
All Meat Animals	560,000	494,000	836,000
Cattle and Calves	334,000	268,000	552,000
Sheep and Lambs	7,000	5,000	9,000
Hogs and Pigs	219,000	221,000	275,000
All Dairy Products	2,160,000	2,118,000	2,465,000
Milk Wholesale	2,083,000	1,978,000	2,400,000
Milk Retail	77,000	140,000	65,000
All Poultry and Eggs	684,000	433,000	665,000
Poultry	15,000	11,000	25,000
Eggs	669,000	422,000	640,000
All Miscellaneous Livestock	731,000	949,000	932,000
Wool	29,000	25,000	8,000
Other Livestock 2/	702,000	924,000	924,000
Total All Crops	7,836,000	7,659,000	8,124,800
All Feed Crops	1,792,000	1,853,000	1,830,500
Barley	783,000	885,000	803,000
Hay	988,000	952,000	1,008,000
Oats	21,000	16,000	19,500
All Vegetables	1,322,000	1,725,000	1,967,300
Potatoes	775,000	1,137,000	1,360,000
Miscellaneous Vegetables	547,000	588,000	607,300
Berries	25,000	25,000	27,000
All Other Crops 3/	4,697,000	4,056,000	4,300,000

1/ Preliminary. 2/ Includes horses, reindeer, goats, honey, rabbits, mink, and other livestock and products. 3/ Includes greenhouse, nursery, seed and other field crops not mentioned above, and forest products.

ALASKA'S 1981 CROP SEASON

MATANUSKA VALLEY: Early break-up and warm temperatures during April hastened field work in early May. Small grain seeding, potato planting and commercial vegetable planting were widespread during the second week of May. Virtually, all barley for grain and potatoes were planted prior to June 1 when timely rains came. Small grain and potato emergence was excellent. Crop growth was moderate throughout much of June, leaving crops average or above. Haying started on a few fields before mid-June and first cutting was nearly finished on a few farms by July 1. Inclement weather slowed hay making on the remaining farms during much of July and limited progress during most of August. Many fields were only harvested once due to the lateness of the first cutting; however, several growers were still making hay in late September and October whenever the weather cleared. Vegetable harvest started in early July. Topsoil moisture supplies were generally adequate to surplus from July 1 through the end of the season. Cool, cloudy weather during much of July and August slowed development on all crops and maturity was behind normal. Good supplies of vegetables remained available through mid-September. Scattered frosts started in early September, although the heavy frost did not occur until late in the month. Combining was delayed on most farms until late September. Much of the early seeded barley was combined and most potato growers had finished digging prior to October 1.

TANANA VALLEY: Little or no snow cover during April allowed several growers to get the jump on fieldwork. However, cool, wet weather and frozen ground in early May slowed progress on several of the larger farms. Conditions were excellent for fieldwork and seeding from the second week of the month and on farmers took advantage of the long days. Barley seeding was nearly finished by June 1. Emergence and crop growth was excellent through June, except for an occasional light frost that nipped tender vegetables. Hay making started on a few farms at mid-June but, rain showers delayed harvest in most areas until early August. Soil moisture was generally adequate or better throughout the growing season. Light frost occurred in early August in the Salcha and Clearwater areas and a heavy frost ended all growth on August 16. Due to the early frost, barley combining was slow. However, by mid-September, 35 percent has been swathed or combined. A wet snow storm on September 21 left many grain fields flattened and curtailed most combining for the remainder of the year with only 30 percent completed.

KENAI PENINSULA: Hay fields started to green up and firm up as fieldwork was nearly 7 days ahead of normal by mid-May. Crop growth was moderate through mid-June. Haying activity started in late June on a few farms but inclement weather all but stopped most activity until late August. A hard killing frost occurred in late September. Harvesting of all vegetables and potatoes was complete before October 1.

1981 HARVESTED ACRES

1.	Barley Grain	25.8%
2.	Grass Hay	44.5%
3.	Grain Hay	12.7%
4.	Grain Silage	5.6%
5.	Grass Silage	6.3%
6.	Potatoes and Vegetables	3.1%
7.	Oats Grain	2.0%

ALASKA CROP SUMMARY

BARLEY was planted on a record 16,500 acres in 1981, 2,500 acres more than in 1980. Growers harvested 6,700 acres of which 6,500 acres were harvested for grain. Production of Barley For Grain was 218,000 bushels, 121,000 bushels below 1980. Yield averaged 33.5 bushels or 16.1 cwt. per acre. Value of the 1981 crop, at $894,000 was $123,000 below the 1980 level.

OAT growers planted 6,000 acres of oats, 2,900 acres more than 1980. Growers harvested 4,200 acres, 1,300 above last year's level. Most of the oat acreage was harvested for hay in 1981.

Oats for Grain was harvested from 500 acres, down from 600 acres harvested in 1980. Production at 21,700 bushels was down 4,400 bushels from the 1980 production. The State's yield averaged 43.5 bushels or 14.0 cwt. per acre. Value of the 1981 crop at $65,000 was $16,000 below the previous year.

MIXED GRAINS for hay and silage were harvested fron 700 acres, compared with 500 acres in 1980. Production is included with hay and silage data.

ALL HAY production of 20,200 tons was up 5,200 tons from the 1980 production and the largest crop since 1978. The State average yield at 1.40 tons per acre, compares with 1.17 tons per acre in 1980. The 1981 crop was harvested from 14,400 acres, up from 12,800 acres a year earlier. Production value of all hay at $3,232,000 was up $1,132,000 from the previous year and was the first year that the production value exceeded three million dollars.

Grass Hay was harvested from a record 11,200 acres, 800 acres more than in 1980. Production of 14,700 tons of grass hay was 2,400 tons above the 1980 level. Seeded grass hay--brome, timothy, etc.--was harvested mostly in the Tanana and Matanuska Valleys. Native grasses make up most of the Southwest District and much of the Kenai Peninsula hay production.

Grain Hay, mostly oat hay, was harvested from 3,200 acres, up 800 acres from the previous year. Production totaled 5,500 tons, 2,800 tons above the 1980 level.

ALL SILAGE production of 12,800 tons was up 400 tons from the previous year. A total of 3,000 acres of silage was harvested, down 600 acres from 1980. Grass Silage was harvested from 1,600 acres and produced 6,700 tons. Grain Silage produced 6,100 tons from 1,400 acres. Silage is produced mainly by Grade A dairies in the Matanuska Valley. Production value of all silage at $499,000, was $15,000 more than a year ago.

POTATO production of 95,000 cwt. was harvested from 500 acres, compares with 77,000 cwt. in 1980. Value of production at $1,900,000 was $337,000 above the 1980 crop.

VEGETABLES were harvested from 273 acres, 46 acres more than the previous year. Value of all vegetables produced, excluding greenhouse vegetables was $639,000 compares with $616,500 in 1980. Head Lettuce production of 23,400 cartons were harvested from 100 acres in 1981. Starting in 1981, lettuce data reflects only head lettuce. Lettuce data prior to 1981 included all lettuce. Other types of lettuce are now included in other vegetables starting with 1981 data. An annual average carton weight of head lettuce in Alaska is 45 pounds. Cabbage production of 9,100 cartons were produced on 41 acres in 1981. An annual average carton weight for cabbage in Alaska is 50 pounds.

Carrot production totaled 3,700 cwt., 400 cwt. above 1980. Acres harvested at 27 was slightly below last year's level. Other vegetables were harvested from 105 acres, 33 acres above the previous year.

CROPLAND UTILIZATION - ALASKA 1981

Crops	Tanana Valley	Matanuska Valley	Kenai Penin 1/	South-West 1/	State Total
			Acres		
		PLANTED AREA			
COMMERCIAL VEGETABLES					
Potatoes	100	460	30	-	590
Lettuce	15	91	-	-	106
Cabbage	7	37	-	-	44
Carrots	6	22	3	-	28
Other Vegetables	14	96	-	-	113
FEED CROPS					
All Oats	5,100	600	300	-	6,000
All Barley	15,600	900	-	-	16,500
Grain Mixtures	-	650	50	-	700
GRASSLAND HARVESTED					
Grass	3,900	7,150	1,650	100	12,800
TOTAL LAND IN CROPS	24,742	10,006	2,033	100	36,881
Percent of State Total	67.1	27.1	5.5	.3	100
		HARVESTED AREA			
COMMERCIAL VEGETABLES					
Potatoes	80	395	25	-	500
Lettuce	14	86	-	-	100
Cabbage	7	34	-	-	41
Carrots	6	21	-	-	27
Other Vegetables	13	92	-	-	105
FEED CROPS					
Oats-All Purposes	3,450	450	300	-	4,200
Barley-All Purposes	5,850	850	-	-	6,700
Grain Mixtures	-	650	50	-	700
Grass	3,900	7,150	1,650	100	12,800
		FEED CROP UTILIZATION			
GRAIN					
Oats	300	200	-	-	500
Barley	5,800	700	-	-	6,500
HAY					
Grain	2,600	300	300	-	3,200
Grass	3,600	5,900	1,600	100	11,200
SILAGE					
Grain	600	750	50	-	1,400
Grass	300	1,250	50	-	1,600

1/ Dash indicates no crop produced or combined with other Districts.

BARLEY AND OATS - ALASKA 1979-81

District	Year	Area Planted Acres	AREA HARVESTED FOR GRAIN Acres	Yield Bu.	Production Bu. (000)	Cwt.	Value (000)
			BARLEY				
Tanana Valley	1979	4,400	4,080	45.6	186.0	89,300	536.0
	1980	12,500	10,600	29.2	309.6	148,600	904.0
	1981	15,600	5,800	32.9	191.0	91,700	774.0
Matanuska Valley	1979	2,050	1,720	58.7	101.0	48,500	325.0
	1980	1,400	900	32.7	29.4	14,100	113.0
	1981	900	700	38.6	27.0	13,000	120.0
Kenai Peninsula	1979	50	-	-	-	-	-
	1980	100	-	-	-	-	-
	1981	-	-	-	-	-	-
State Total	1979	6,500	5,800	49.5	287.0	137,800	861.0
	1980	14,000	11,500	29.5	339.0	162,700	1,017.0
	1981	16,500	6,500	33.5	218.0	104,700	894.0
			OATS				
Tanana Valley	1979	400	150	54.0	8.1	2,600	19.0
	1980	2,100	450	42.9	19.3	6,200	52.0
	1981	5,100	300	47.7	14.3	4,600	39.0
Matanuska Valley	1979	500	150	50.0	7.5	2,400	22.0
	1980	600	150	45.3	6.8	2,200	29.0
	1981	600	200	37.0	7.4	2,400	26.0
Kenai Peninsula	1979	300	-	-	-	-	-
	1980	400	-	-	-	-	-
	1981	300	-	-	-	-	-
State Total	1979	1,200	300	52.0	15.6	5,000	41.0
	1980	3,100	600	43.5	26.1	8,400	81.0
	1981	6,000	500	43.5	21.7	7,000	65.0

HAY AND SILAGE - ALASKA 1979-81

District	Year	Area Harvested Acres	Production Tons	Production Value (000)	Area Harvested Acres	Production Tons	Production Value (000)
		HAY					
		GRAIN HAY [1]			GRASS HAY		
Tanana Valley	1979	400	700	88.0	2,600	2,400	292.0
	1980	1,800	2,000	270.0	3,100	2,200	310.0
	1981	2,600	4,900	733.0	3,600	3,700	584.0
Matanuska Valley	1979	300	600	84.0	5,900	10,100	1,336.0
	1980	450	500	66.0	5,800	7,900	1,094.0
	1981	300	300	46.0	5,900	9,300	1,549.0
Kenai Peninsula	1979	300	300	41.0	1,100	1,500	191.0
	1980	150	200	25.0	1,300	1,800	275.0
	1981	300	300	47.0	1,600	1,600	257.0
Southwest [2]	1979	-	-	-	200	200	22.0
	1980	-	-	-	200	400	60.0
	1981	-	-	-	100	100	16.0
State Total	1979	1,000	1,600	213.0	9,800	14,200	1,841.0
	1980	2,400	2,700	361.0	10,400	12,300	1,739.0
	1981	3,200	5,500	826.0	11,200	14,700	2,406.0
		SILAGE					
		GRAIN SILAGE [1]			GRASS SILAGE		
Tanana Valley	1979	-	-	-	-	-	-
	1980	850	1,000	38.0	50	100	4.0
	1981	600	1,400	48.0	300	500	20.0
Matanuska Valley	1979	650	4,000	140.0	1,700	8,200	331.0
	1980	700	3,000	108.0	1,550	7,400	303.0
	1981	750	4,500	171.0	1,250	6,000	246.0
Kenai Peninsula	1979	50	200	6.0	-	-	-
	1980	350	700	24.0	100	200	7.0
	1981	50	200	7.0	50	200	7.0
State Total	1979	700	4,200	146.0	1,700	8,200	331.0
	1980	1,900	4,700	170.0	1,700	7,700	314.0
	1981	1,400	6,100	226.0	1,600	6,700	273.0

1/ Includes mixed grains, oats and barley. 2/ Includes Southeast.

ALL HAY AND ALL SILAGE - ALASKA 1979-81

District	Year	Area Harvested Acres	Yield Tons	Production Tons	Value (000)
ALL HAY					
Tanana Valley	1979	3,000	1.03	3,100	380.0
	1980	4,900	.86	4,200	580.0
	1981	6,200	1.39	8.600	1,317.0
Matanuska Valley	1979	6,200	1.73	10,700	1,420.0
	1980	6,250	1.34	8,400	1,160.0
	1981	6,200	1.55	9,600	1,595.0
Kenai Peninsula	1979	1,400	1.29	1,800	232.0
	1980	1,450	1.38	2,000	300.0
	1981	1,900	1.00	1,900	304.0
Southwest 1/	1979	200	1.00	200	22.0
	1980	200	2.00	400	60.0
	1981	100	1.00	100	16.0
State Total	1979	10,800	1.46	15,800	2,054.0
	1980	12,800	1.17	15,000	2,100.0
	1981	14,400	1.40	20,200	3,232.0
ALL SILAGE					
Tanana Valley	1979	-	-	-	-
	1980	900	1.22	1,100	42.0
	1981	900	2.11	1,900	68.0
Matanuska Valley	1979	2,350	5.19	12,200	470.0
	1980	2,250	4.62	10,400	411.0
	1981	2,000	5.25	10,500	417.0
Kenai Peninsula	1979	50	4.00	200	7.0
	1980	450	2.00	900	31.0
	1981	100	4.00	400	14.0
State Total	1979	2,400	5.17	12,400	477.0
	1980	3,600	3.44	12,400	484.0
	1981	3,000	4.27	12,800	499.0

1/ Includes Southeast.

MIXED GRAINS 1/ (All Purposes) - ALASKA 1979-81

District	1979	1980	1981	1979	1980	1981
	- - - - - - - - - - - - Acres - - - - - - - - - - - -					
	AREA PLANTED			AREA HARVESTED		
Tanana Valley	100	50	-	100	50	-
Matanuska Valley	400	450	650	400	450	650
Kenai Peninsula	-	-	50	-	-	50
State Total	500	500	700	500	500	700

1/ Includes mixtures of oats, barley, peas and vetch.

POTATO STOCKS - ALASKA 1979-81

Crop Year	Total Production	Oct 1	Dec 1	Jan 1	Feb 1	Mar 1	Apr 1	May 1	Jun 1
	- - - - - - - - - - - - - - - - - - hundred weight - - - - - - - - - - - - - - - - - -								
1979	85.0	77.5	61.5	52.0	43.0	36.5	26.5	17.5	7.5
1980	77.0	72.5	59.0	52.0	41.5	33.5	26.0	19.5	7.5
1981	95.0	87.0	77.0	56.0	49.0	39.0	33.0	22.5	

POTATO PRODUCTION, DISPOSITION AND AVERAGE PRICE - ALASKA 1978-80

Crop Year	Production	Total Seed	Farm Food Seed 1/	Lost and Shrinkage	Sold	Price Per Cwt.
	- - - - - - - - - - - - - - - - - - hundred weight - - - - - - - - - - - - - - - - - -					
1978	81.0	5.7	8.0	9.0	64.0	11.50
1979	85.0	5.8	7.0	15.0	63.0	12.30
1980	77.0	8.4	10.5	10.5	56.0	20.30

1/ Household use, fed livestock, and seed used on farm where grown.

POTATOES - ALASKA 1979-81

District	Year	Area Harvested Acres	Yield Cwt.	Production Cwt.	Production Value (000)
Tanana Valley	1979	110	159	17,500	254.0
	1980	95	129	12,300	267.0
	1981	80	110	8,800	191.0
Matanuska Valley	1979	330	193	63,800	745.0
	1980	340	184	62,700	1,254.0
	1981	395	204	80,500	1,591.0
Kenai Peninsula	1979	20	185	3,700	47.0
	1980	25	80	2,000	42.0
	1981	25	228	5,700	118.0
State Total	1979	460	185	85,000	1,046.0
	1980	460	167	77,000	1,563.0
	1981	500	190	95,000	1,900.0

LETTUCE AND CABBAGE - ALASKA 1979-81

District	Year	Area Harvested Acres	Production Ctn.	Production Cwt.	Value
			LETTUCE		
Tanana Valley	1979	13		1,200	36,000
	1980	15		1,200	42,000
	1981 1/	14	2,500		39,000
Matanuska Valley	1979	77		11,600	255,000
	1980	85		10,000	200,000
	1981 1/	86	20,900		207,000
State Total	1979	90		12,800	291,000
	1980	100		11,200	242,000
	1981 1/	100	23,400		246,000
			CABBAGE		
Tanana Valley	1979	7		800	18,000
	1980	7		300	7,500
	1981	7	1,400		17,600
Matanuska Valley	1979	23		3,200	59,000
	1980	20		3,800	72,000
	1981	34	7,700		73,400
State Total	1979	30		4,000	77,000
	1980	27		4,100	79,500
	1981	41	9,100		91,000

1/ Head lettuce only.

CARROTS AND OTHER VEGETABLES - ALASKA 1979-81

District	Year	Area Harvested Acres	Production Cwt.	Production Value
			CARROTS	
Tanana Valley	1979	5	500	15,000
	1980	7	300	10,000
	1981	6	700	25,000
Matanuska Valley	1979	20	1,900	51,000
	1980	21	3,000	102,000
	1981	21	3,000	96,000
State Total	1979	25	2,400	66,000
	1980	28	3,300	112,000
	1981	27	3,700	121,000
			OTHER VEGETABLES 1/	
Tanana Valley	1979	17	600	24,000
	1980	14	500	23,000
	1981	13	200	10,000
Matanuska Valley 2/	1979	58	2,900	113,000
	1980	58	4,100	160,000
	1981	92	4,500	171,000
State Total	1979	75	3,500	137,000
	1980	72	4,600	183,000
	1981	105	4,700	181,000

1/ Excludes greenhouse grown vegetables. 2/ Includes Kenai Peninsula.

FERTILIZER CONSUMPTION - ALASKA 1980-81

	1980	1981 1/		1980	1981 1/
	- - - - - - - - - - - - - tons - - - - - - - - - - - - -				
NITROGEN:			COMPLETE FORMULAS:		
Ammonium Nitrate	370	875	15-21-21	-	140
Urea	1,590	2,230	15-30-15	65	-
Other	-	55	16-16-16	440	290
PHOSPHATES:			18-46-0	90	80
Treble Super Phosphate	15	420	20-10-10	210	130
Ammoniated Phosphate	60	195	20-20-10	390	230
Other	-	10	21-7-14	90	-
POTASH:			21-20-15	-	290
Muriate of Potash	45	250	22-4-4	150	115
Potassium Sulfate	75	10	22-11-11	820	350
Other	-	10	22-17-8.5	430	-
COMPLETE FORMULAS:			23-3-7	65	65
5-10-10	-	20	23-7-15	-	450
5-25-30	85	-	24-18-12	-	65
5.5-26-26	-	40	26-13-13	-	175
6-24-24	-	50	26-18-9	-	240
6-28-14	-	105	26-21-6	-	50
6-28-28	35	-	27-18-9	-	115
7.7-36-15	140	0	28-14-7.2	180	-
8-32-15	-	55	28-15-5.6	-	50
8-32-16	1,480	840	29-0-20	-	60
10-15-11	-	40	29-9-10	-	25
10-20-10	510	420	30-10-10	-	70
12-24-24	145	-	32-0-17	-	80
12-50-10	-	40	34-0-11	20	-
15-4-4	40	-	Miscellaneous 2/	80	95
15-11-11	-	40	TOTAL	8,600	9,060
			Lime	1,150	1,250

CONSUMPTION OF FERTILIZER AND PLANT NUTRIENTS - ALASKA 1979-81

Year Ended June 30	KIND OF FERTILIZER: Mixed Fertilizer (tons)	Primary Nutrient Material (tons)	Secondary and Micronutrient	Total Fertilizer (tons)
1979	3,605	1,655	0	5,260
1980	6,445	2,155	0	8,600
1981	5,005	4,055	0	9,060

1/ Preliminary.
2/ Complete formulas of less than 20 tons combined with miscellaneous.

ALASKA LIVESTOCK AND POULTRY - 1981

CATTLE AND CALVES: There were 9,200 head of cattle and calves on Alaska farms and ranches January 1, 1982, up 800 head from last year. Inventory value of all cattle on January 1, 1982 was $4,922,000.

DAIRY: Milk cows that have calved numbered 1,100 on January 1, 1982, unchanged from the previous January 1. There were 500 head of dairy replacement heifers. Value of all dairy cows and replacement heifers was $1,214,000, $21,000 above a year earlier.

The number of Grade A dairies in the State on January 1, 1982, totaled 12 of which 8 were located in the Matanuska Valley; three in the Tanana Valley near Delta Junction; and one on the Kenai Peninsula near Kasilof.

MILK PRODUCTION in 1981 totaled 13.4 million pounds, 900,000 pounds more than in 1980. The value of milk produced, at $2,601,000, was $357,000 more than a year ago. The 1981 value per hundredweight of $19.41 compares with $17.95 in 1980.

BEEF: Beef cattle (all cattle and calves less milk cows and dairy replacement heifers) numbered 7,600 head, 800 above the January 1, 1981 number. Beef cow numbers, at 3,000 head, were 500 above the previous year. Replacement heifers are estimated at 1,000 head.

Total value of all beef stock on January 1, 1982 was $3,708,000, an increase of $617,000 from a year earlier. Beef cattle numbers increased sharply during the year in the Tanana Valley.

Marketing and transportation problems continue to be main obstacles of the rancher. Most beef are sold off the range at the end of the grazing season.

HOGS: There were 2,800 hogs and pigs on Alaska farms on December 1, 1981, up from 1,800 head the previous year. Total value of hogs on December 1, 1981 was $392,000, compared with $254,000 on December 1, 1980. The main producing areas are in the Tanana and Matanuska Valleys.

SHEEP: Stock sheep and lambs in Alaska on January 1, 1982, totaled 3,900 head, unchanged from a year earlier; a record low since our records began in 1960.

The number of ewes one year old or over, at 1,900 head, was off 100 head from the previous year. Wether and ram numbers, at 1,400 head, was 100 more than a year earlier. A total of 600 lambs under 1 year, were on hand January 1, 1982 on Alaska farms and ranches, unchanged from a year ago. Inventory value of sheep was estimated at $369,000 compared with $341,000 a year earlier.

Nearly 95 percent of the sheep are located on the Aleutian Chain about 750 air miles from Anchorage.

WOOL PRODUCTION of 15,000 pounds was down from 35,000 pounds in 1980. The 1,500 head shorn compares with 3,300 head shorn in 1980. Fleece weight of 10 pounds was down slightly from the previous year. Value of 1981 wool crop was $8,000.

POULTRY: All chickens on farms and commercial laying flocks in Alaska totaled 37,000 on December 1, 1981. Value of all chickens totaled $187,000, up from $168,000 a year earlier.

EGG PRODUCTION totaled 558,000 dozen in 1981, 183,000 dozen more than in 1980, and compares with the high of 850,000 dozen in 1966. Value of eggs produced in 1981 was about $670,000, $220,000 above the previous year.

CATTLE ON FARMS JANUARY 1 - ALASKA 1980-82

District	1980	1981	1982	1980	1981	1982
	BEEF COWS THAT HAVE CALVED			MILK COWS THAT HAVE CALVED		
Tanana Valley	170	230	480	40	80	180
Matanuska Valley	110	190	170	1,020	980	880
Kenai Peninsula	220	240	330	30	30	30
Southwest 1/	2,000	1,840	2,020	10	10	10
State Total	2,500	2,500	3,000	1,100	1,100	1,100
VALUE (000) DOLLARS	1,125.0	1,249.0	1,650.0	913.0	913.0	924.0
	BEEF REPLACEMENT HEIFERS 2/			DAIRY REPLACEMENT HEIFERS 2/		
Tanana Valley	60	260	120	20	30	50
Matanuska Valley	60	60	70	470	460	440
Kenai Peninsula	80	80	120	10	10	10
Southwest 1/	600	500	690	-	-	-
State Total	800	900	1,000	500	500	500
VALUE (000) DOLLARS	440.0	495.0	562.0	277.0	280.0	290.0
	STEERS 2/			BULLS 2/		
Tanana Valley	30	40	60	20	30	50
Matanuska Valley	60	50	110	50	50	40
Kenai Peninsula	20	30	30	40	40	40
Southwest 1/	290	480	500	1,090	880	670
State Total	400	600	700	1,200	1,000	800
VALUE (000) DOLLARS	220.0	330.0	406.0	738.0	630.0	544.0
	CALVES 3/			ALL CATTLE		
Tanana Valley	60	120	370	400	790	1,310
Matanuska Valley	580	550	570	2,350	2,340	2,280
Kenai Peninsula	200	160	170	600	590	730
Southwest 1/	1,060	970	990	5,050	4,680	4,880
State Total	1,900	1,800	2,100	8,400	8,400	9,200
VALUE (000) DOLLARS	361.0	387.0	546.0	4,074.0	4,284.0	4,922.0

1/ Includes Southeast. 2/ Over 500 Pounds. 3/ Under 500 Pounds.

CALF CROP - ALASKA
(Selected Years)

Year	Cows and Heifers That Have Calved January 1	Calving Percentage	Calf Crop
1961	4,200	83	3,500
1965	4,600	89	4,100
1970	4,400	86	3,800
1975	4,400	80	3,500
1980	3,600	78	2,800
1981	4,100	78	3,200

BEEF AND VEAL - ALASKA 1979-81

Year	Tanana Valley	Matanuska Valley	Kenai Penin.	South-East 1/	State Total
		Production - Pounds (Dr. Wt.)			
1979	72,000	285,000	110,000	281,000	748,000
1980	116,000	296,000	120,000	235,000	767,000
1981	130,000	274,000	104,000	241,000	749,000
		Production - Values			
1979	88,000	265,000	131,000	271,000	755,000
1980	138,000	294,000	143,000	249,000	824,000
1981	162,000	320,000	142,000	325,000	949,000

1/ Includes Southwest.

MILK PRODUCTION BY MONTHS - ALASKA 1979 AND 1981

Month	Milk Cows in Herd 1/		Milk Per Cow		Milk Production	
	1979	1981	1979	1981	1979	1981
			- - pounds - -		-thousand pounds-	
January	1,300	1,100	830	1,025	1,080	1,130
February	1,300	1,100	745	935	970	1,030
March	1,300	1,100	830	1,000	1,080	1,100
April	1,200	1,100	875	1,025	1,050	1,130
May	1,200	1,100	910	1,045	1,090	1,150
June	1,200	1,100	925	1,010	1,110	1,110
July	1,200	1,100	965	990	1,160	1,090
August	1,200	1,100	975	1,025	1,170	1,130
September	1,200	1,100	925	1,035	1,110	1,140
October	1,200	1,100	900	1,055	1,080	1,160
November	1,200	1,100	865	1,020	1,040	1,120
December	1,100	1,100	965	1,010	1,060	1,110
ANNUAL	1,200	1,100	10,833	12,182	13,000	13,400

1/ Includes all fresh and dry cows.

MILK PRODUCTION AND VALUE - ALASKA 1979-81

District	Year	Production		Value	Percent
		Pounds (000)	Value (000)	Per Cwt.	Milkfat
Tanana Valley 1/	1979	500	107	NOT ESTIMATED BY DISTRICTS	
	1980	600	132		
	1981	1,500	320		
Matanuska Valley	1979	12,500	2,194		
	1980	11,900	2,112		
	1981	11,900	2,281		
State Total	1979	13,000	2,301	17.70	3.58
	1980	12,500	2,244	17.95	3.58
	1981	13,400	2,601	19.41	3.58

1/ Includes Kenai Peninsula.

ALL HOGS - ALASKA 1979-81

Year	Tanana Valley	Matanuska Valley	Kenai Penin	South-East	South-West	State Total	Value (dollars)
1979	560	420	60	50	10	1,100	137,000
1980	740	950	70	30	10	1,800	254,000
1981	1,550	1,140	60	30	20	2,800	392,000

PIG CROP (Selected Years) - ALASKA

Year	Spring Farrowings			Fall Farrowings		
	Sows Farrowed	Pigs Per Litter	Pigs Saved	Sows Farrowed	Pigs Per Litter	Pigs Saved
1961	130	6.9	900	120	6.8	820
1965	150	5.8	900	150	7.1	1,000
1970	120	6.6	790	130	6.9	900
1975	50	8.0	400	50	7.5	400
1980	170	7.1	1,200	210	6.7	1,400
1981	280	5.7	1,600	350	5.7	2,000

PORK - ALASKA 1979-81

Year	Tanana Valley	Matanuska Valley	Kenai Penin.	South-East 1/	State Total
			Production - Pounds		
1979	80,000	121,000	8,000	12,000	221,000
1980	85,000	124,000	12,000	11,000	232,000
1981	137,000	134,000	11,000	11,000	293,000
			Production - Values		
1979	85,000	119,000	8,000	13,000	226,000
1980	86,000	120,000	13,000	13,000	232,000
1981	137,000	131,000	12,000	13,000	293,000

1/ Includes Southwest.

POULTRY ON FARMS DECEMBER 1 - ALASKA 1979-81

Year	Tanana Valley	Matanuska Valley	Kenai Penin.	South-East	South-West	State Total	Value (dollars)
			HENS AND PULLETS OF LAYING AGE				
1979	1,200	21,300	1,200	300	1/	24,000	106,000
1980	3,600	20,200	4,000	200	1/	28,000	118,000
1981	2,900	27,700	4,100	300	1/	35,000	179,000
			ALL CHICKENS				
1979	1,700	22,400	1,500	400	1/	26,000	113,000
1980	5,000	30,200	5,500	300	1/	41,000	168,000
1981	3,400	28,500	4,600	500	1/	37,000	187,000

1/ Combined with Southeast.

POULTRY - ALASKA 1979-81

Year	Tanana Valley	Matanuska Valley	Kenai Penin.	South-East 1/	State Total
			Number Raised 2/		
1979	24,000	45,400	10,000	4,600	84,000
1980	26,000	49,800	12,000	3,200	91,000
1981	28,000	50,800	26,000	2,200	107,000
			Production - Pounds		
1979	58,700	79,000	21,100	11,200	170,000
1980	52,800	85,000	15,900	7,300	161,000
1981	66,400	104,600	55,700	4,300	231,000
			Production - Values		
1979	27,500	36,400	9,700	5,400	79,000
1980	28,000	43,700	8,500	3,800	84,000
1981	36,500	54,500	30,600	2,400	124,000

1/ Includes Southwest

2/ Purchased during the year, excludes death loss before reaching 20 weeks of age.

EGG PRODUCTION BY MONTHS - ALASKA 1979 and 1981

Months	Hens and Pullets		Eggs Per Layer		Egg Production	
	1979	1981	1979	1981	1979	1981
					(000)	
December 1/	25,000	28,000	17.40	16.61	435	465
January	27,000	27,000	18.89	18.70	510	505
February	25,000	23,000	19.40	16.74	485	385
March	25,000	24,000	22.40	19.38	560	465
April	25,000	28,000	22.80	19.46	570	545
May	24,000	28,000	22.91	18.39	550	515
June	26,000	28,000	21.54	17.86	560	500
July	27,000	27,000	23.33	19.63	630	530
August	28,000	26,000	22.14	21.15	620	550
September	28,000	31,000	20.54	20.81	575	645
October	25,000	36,000	20.40	21.67	510	780
November	23,000	35,000	18.91	21.29	435	745

1/ December preceding year.

EGGS - ALASKA 1979-81

District	Year	Av. Number of Layers	Production		Sales
			Dozen	(dollars)	(dozen)
Tanana Valley	1979	NOT	173,000	230,000	164,200
	1980		15,000	21,500	92,000
	1981		65,000	97,500	58,000
Matanuska Valley	1979	ESTIMATED	378,000	458,000	369,000
	1980		341,000	401,000	330,000
	1981		420,000	470,000	412,000
Kenai Peninsula	1979	BY	3,000	4,400	800
	1980		16,000	23,000	12,000
	1981		67,000	93,500	60,000
Southeast and Southwest	1979	DISTRICTS	4,000	5,600	1,000
	1980		3,000	4,500	800
	1981		6,000	9,000	3,000
State Total	1979	27,000	558,000	698,000	535,000
	1980	24,000	375,000	450,000	352,000
	1981	26,000	558,000	670,000	533,000

SHEEP, LAMB, WOOL AND MUTTON - ALASKA

SHEEP AND LAMBS ON FARMS JANUARY 1, 1980-82 - ALASKA

Year	EWES ONE YEAR PLUS State Total	Value (000)
1980	2,300	195.0
1981	2,000	189.0
1982	1,900	190.0

Year	WETHERS AND RAMS ONE YEAR PLUS State Total	Value (000)
1980	1,300	91.0
1981	1,300	104.0
1982	1,400	126.0

Year	ALL LAMBS State Total	Value (000)
1980	700	49.0
1981	600	48.0
1982	600	53.0

Year	ALL SHEEP AND LAMBS State Total	Value (000)
1980	4,300	335.0
1981	3,900	341.0
1982	3,900	369.0

LAMB CROP - ALASKA (Selected Years)

Year	Ewes One Year Old and Over January 1	Lambing Percentage	Lambs Saved
1961	6,000	67	4,000
1965	9,000	56	5,000
1970	11,000	45	5,000
1975	6,000	17	1,000
1980	2,000	26	600
1981	2,000	40	800

WOOL PRODUCTION - ALASKA 1979-81

Year	PRODUCTION Pounds	Value (dollars)
1979	32,000	29,000
1980	35,000	25,000
1981	15,000	8,000

LAMB AND MUTTON - ALASKA 1979-81

Year	PRODUCTION Pounds Dr. Wt.	Value (dollars)
1979	24,000	14,000
1980	18,000	10,000
1981	18,000	18,000

ALASKA'S CLIMATE

Temperature and precipitation vary considerably from one end of the State to the other. Although several areas of the State have suitable soils, as well as a favorable climate for agriculture, most farms are located in the Railbelt. This area includes the Tanana Valley, Matanuska Valley and Kenai Peninsula.

Matanuska Valley, surrounding the Palmer area and near Anchorage, is the major agriculture producing area. The Valley not only has good soils, but the most suitable climate for agriculture of any area in the State. Temperatures are a little more moderate than in the interior. The Anchorage and Palmer area has up to 19 hours of daylight. Summer and fall seasons have frequent showers and cloudy weather. Total precipitation is limited, but usually adequate because of the low evaporation rate. The connecting Susitna Valley has a shorter growing season, otherwise, similar conditions prevail. April, May and June are the driest months.

Tanana Valley, from Fairbanks to Delta Junction, is the second most important existing agriculture area. Temperature changes are more severe because of the distance from the ocean. Warming and cooling trends in the spring and autumn are quite rapid. Summers are shorter, and warmer than the other areas; winters are colder. In spite of the short growing season, the long days of sunshine and warmer temperatures make crops grow and mature faster. Fairbanks has up to 21 hours of daylight.

Kenai Peninsula has primarily a maritime weather situation. Temperatures are moderated by effects of the water. Frosts are fairly frequent until mid-June. Precipitation is higher than the other areas of the Railbelt. Crops have to be carefully selected for their tolerance of frosts, and a shorter growing season.

Other Areas, including Kodiak and other islands along the Aleutian Chain, as well as the Southeast, all have a maritime climate with warmer winters and cooler summers than the interior. Cloudy weather and frequent rains often delay crop maturity.

Detailed summaries are shown on the following pages for temperature, precipitation and growing degree days. Data for these summaries were taken from monthly Climatological Data publications, NOAA, Environmental Data Service, and may vary somewhat from the annual Climatological Data publication when it becomes available.

The length of growing season (GS) shown in the 1981 and historic temperature summaries is based on 32°. The GS is the number of days between the last spring and first fall occurrence of 32°. Official Weather Service temperatures are recorded at the five foot level, therefore, minimum temperatures taken near the ground level will normally be colder than the official readings occasionally by as much as 10°.

Growing degree days as shown on Page 31 are based on an average temperature of 40°. Only temperature values above 40° contribute to growing degree days used in Alaska. For example; the average for July in Wasilla is 59°; therefore, 59°-40°=19°, multiplies by 31 days in the month of July, gives 589 growing season degree days (does not always agree with table due to rounding off monthly temperatures to whole degrees).

Permafrost, as shown on the map (Page 33) is a condition where soil remains frozen throughout the year. Usually, permafrost does not exist where the annual mean temperature is 32°F or above. Vegetation insulates the soil; when it is removed, the soil begins to thaw.

FOOTNOTE: 1/ a) averages through 1981; b) $\leq$ means equal to or less than. $\geq$ means equal to or more than.

1981 TEMPERATURE DATA BY AREA - ALASKA [1/]

STATION	HIGH/LOW FOR					AVERAGE FOR					DATE OF LAST SPRING MINIMUM OF		DATE OF FIRST FALL MINIMUM OF		DAYS IN GS
	YEAR	JAN	APR	JUL	SEP	YEAR	JAN	APR	JUL	SEP	≤32°	≤40°	≤40°	≤32°	≥32°
TANANA VALLEY															
Fairbanks Arpt.	84/-40	50/-11	58/1	77/42	72/22	32	18	31	57	44	5/22	6/4	8/16	8/17	87
Univ. Exp. Sta.	84/-43	47/-14	60/-2	77/35	72/20	32	18	30	56	43	5/24	6/30	7/8	8/17	85
Salcha	81/-43	49/-8	61/-4	78/36	70/20	33	24	31	58	43	5/25	6/30	7/1	8/17	84
Big Delta	83/-43	48/-1	62/-6	75/35	67/14	33	24	29	58	43	5/4	6/30	7/1	8/17	105
Clearwater	82/-50	46/-15	63/-14	77/30	68/13	31	19	28	57	41	6/11	6/30	7/1	7/1	20
MATANUSKA VALLEY															
Anchorage	74/-16	47/11	55/21	69/45	64/27	39	32	36	57	48	5/1	6/13	8/17	9/24	146
PMC-Butte	76/-30	48/8	60/15	70/39	66/18	38	33	36	56	46	5/8	6/20	7/10	8/24	108
Palmer AES	76/-17	50/15	58/18	70/42	68/20	39	34	37	56	47	4/30	6/14	8/4	9/25	148
Mat. Exp. Sta.	76/-21	50/11	59/16	71/42	65/20	38	34	37	56	47	5/7	6/16	8/4	9/23	139
Wasilla 3S	77/-19	48/16	59/18	71/40	68/21	40	35	38	59	48	5/23	6/18	7/1	9/21	123
Talkeetna	78/-30	41/4	56/7	69/36	66/20	37	29	32	56	46	5/24	6/30	7/1	9/22	121
KENAI PENINSULA															
Homer Arpt.	70/6	44/23	54/23	70/39	60/31	40	36	37	55	48	5/22	6/27	7/1	9/25	126
Kasilof	68/-20	43/17	55/10	65/27	60/19	36	32	33	54	44	6/23	6/26	7/1	7/1	8
Sterling	72/-23	42/18	54/10	68/30	63/18	35	31	33	53	43	6/13	6/30	7/1	7/1	18
OTHER AREAS															
Kodiak	76/10	45/23	59/25	70/44	67/31	44	38	42	58	50	4/14	6/25	8/16	9/26	166
Nome	78/-29	38/-23	40/-4	72/36	62/19	30	20	24	50	41	5/26	6/30	7/1	8/16	82
McGrath	81/-44	43/-22	55/6	77/33	68/26	30	14	30	56	41	5/7	6/30	7/1	8/17	102
Juneau Arpt.	76/1	55/15	58/25	75/42	65/30	43	38	39	56	49	4/28	6/19	8/23	9/2	128
Haines	81/2	53/18	59/23	75/47	63/36	44	37	40	58	50	4/26	6/24	9/2	10/2	159
Kenny Lake	79/-51	43/0	55/1	74/33	65/6	32	21	29	55	41	6/14	6/30	7/1	8/16	63

1/ See footnote on Page 27.

HISTORICAL TEMPERATURE DATA BY AREA - ALASKA [1/]

STATION	RECORD HIGH/LOW FOR					AVERAGE FOR					GROWING SEASON	
	YEAR	JAN	APR	JUL	SEP	YEAR	JAN	APR	JUL	SEP	Avg. No. Frost Free Days 32°	No. of Years Used for Avg.
TANANA VALLEY												
Fairbanks Arpt.	96/-66	50/-66	74/-49	93/34	84/12	26	-12	29	61	44	114	15
Univ. Exp. Sta.	99/-65	47/-65	76/-32	99/29	85/7	27	-8	30	60	45	90	14
Big Delta	92/-63	48/-63	76/-37	91/35	79/7	27	-5	29	59	44	93	7
Salcha	91/-64	49/-64	76/-19	91/33	74/18	28	2	31	61	45	108	15
Clearwater	93/-72	48/-72	74/-32	90/28	74/13	25	-4	30	59	43	56	7
MATANUSKA VALLEY												
Anchorage	86/-38	56/-35	65/-21	83/35	73/19	35	12	35	58	48	140	15
Palmer AES	90/-35	51/-35	69/-17	85/37	72/17	36	18	37	58	49	124	15
Mat. Exp. Sta.	91/-41	51/-40	68/-16	85/31	75/16	35	12	36	58	48	114	15
Wasilla 3S	90/-38	52/-38	68/-8	87/37	76/17	37	19	38	59	49	111	14
Talkeetna	91/-48	45/-48	69/-37	90/26	78/11	33	9	33	58	46	103	14
PMC-Butte	85/-42	51/-40	72/-10	85/36	71/19	36	18	38	58	48	101	7
KENAI PENINSULA												
Homer Arpt.	81/-17	49/-17	60/-7	78/37	66/24	37	21	35	52	47	140	6
Kasilof	87/-45	48/-45	63/-14	83/27	72/15	34	17	34	53	46	59	13
Sterling	87/-40	44/-38	65/-8	87/30	70/15	34	17	35	55	46	75	10
OTHER AREAS												
Kodiak	86/-8	54/-8	59/-7	80/38	72/26	41	30	37	54	50	156	15
Nome	86/-47	46/-47	60/-30	86/31	65/15	26	6	19	50	42	82	14
McGrath	90/-64	54/-64	67/-31	89/33	76/6	25	-9	27	58	44	107	13
Juneau Arpt.	90/-22	57/-20	71/6	90/36	72/26	40	24	39	56	49	134	15
Haines	98/-17	53/-11	74/16	98/35	76/26	41	24	42	58	50	149	12
Kenny Lake	88/-57	44/-57	68/-10	88/30	70/16	28	0	34	57	44	71	4

1/ See footnote on Page 27.

PRECIPITATION DATA BY AREA (Inches) - ALASKA [1/]

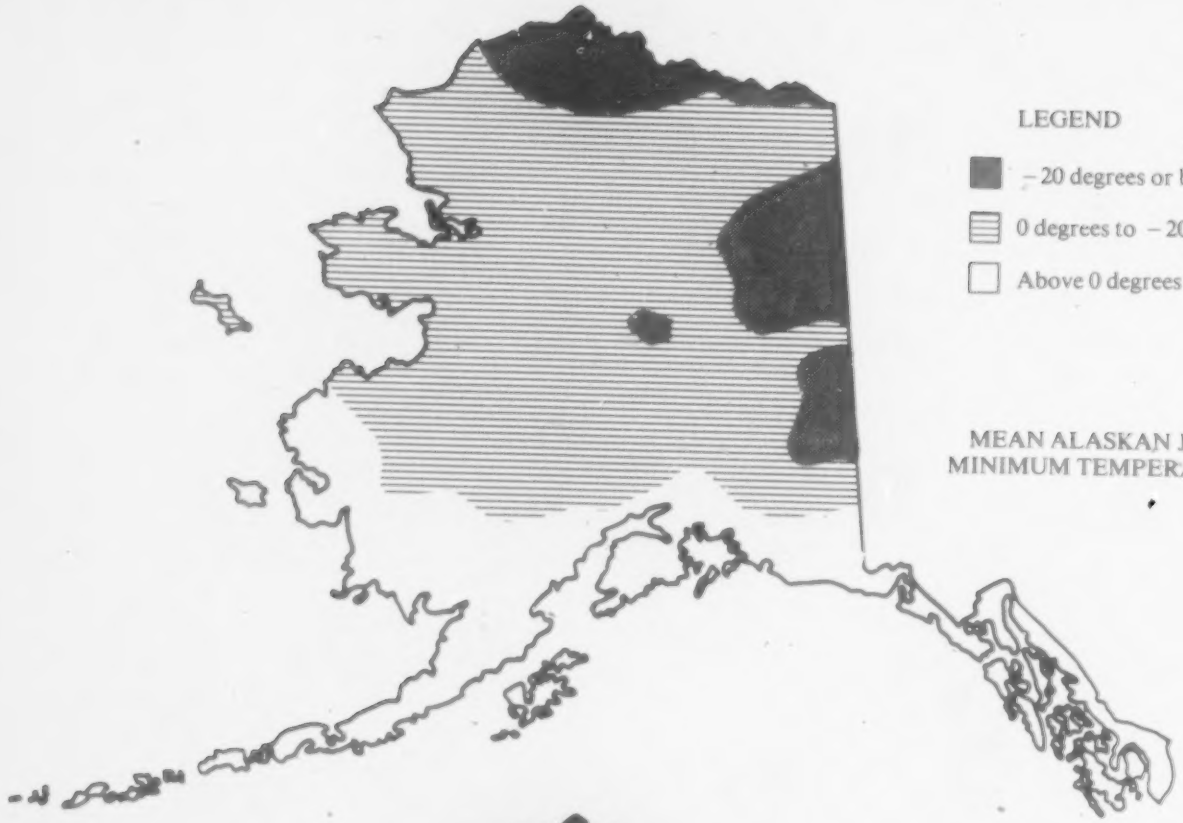
STATION	1981 PRECIPITATION							AVERAGE PRECIPITATION							1981 SNOW-FALL
	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL	
TANANA VALLEY															
Fairbanks Arpt.	.32	.73	1.91	2.41	1.35	.80	11.08	.33	.65	1.42	1.90	2.19	1.08	11.22	43.1
Univ. Exp. Sta.	.42	.40	2.44	4.15	1.30	1.11	14.13	.36	.78	1.61	2.31	2.60	1.30	12.90	35.9
Salcha	NA	1.23	2.25	3.78	1.98	1.34	13.75	.33	.98	2.10	2.57	2.00	1.27	12.31	40.9
Big Delta	.12	1.62	2.43	2.94	2.79	.75	11.91	.31	.94	2.20	2.48	1.92	1.23	11.44	25.3
Clearwater	.99	1.63	2.19	3.86	1.32	1.06	15.73	.48	1.31	2.55	2.61	2.25	1.29	15.52	44.8
MATANUSKA VALLEY															
Anchorage	.19	.81	.83	4.39	4.96	2.15	20.37	.56	.59	1.07	2.07	2.32	2.37	14.74	32.9
PMC-Butte	.07	.51	1.59	3.43	2.99	.47	24.78	.69	.54	1.52	2.68	1.34	2.13	19.27	27.4
Palmer AES	.08	.54	1.30	4.06	3.92	.90	25.00	.66	.58	1.40	2.48	1.62	2.46	16.32	30.7
Mat. Exp. Sta.	.05	.50	1.93	4.57	3.65	.99	18.76	.45	.73	1.64	2.43	2.74	2.28	15.28	21.6
Wasilla 3S	T	.64	2.05	4.57	5.09	1.25	22.16	.73	.53	1.86	2.76	1.85	2.72	16.75	28.0
Talkeetna	.12	1.13	5.25	8.74	7.39	2.02	35.07	1.12	1.46	2.17	3.48	4.89	4.52	28.64	66.7
KENAI PENINSULA															
Homer Arpt.	.10	1.72	.57	3.73	3.73	2.20	38.10	1.09	.91	1.06	1.70	2.56	2.85	23.06	42.6
Kasilof	.19	1.03	.89	3.33	4.41	2.86	22.99	.92	.79	1.19	1.79	1.92	3.55	19.31	19.9
Sterling	.30	.54	1.61	2.49	3.63	1.76	20.13	.74	.65	1.22	1.83	1.50	2.51	15.72	11.9
OTHER AREAS															
Kodiak	2.86	7.26	1.87	2.53	4.35	7.47	70.13	3.81	4.35	4.12	3.54	4.30	6.11	56.71	27.3
Nome	1.03	.66	.80	3.37	2.52	.92	16.52	.73	.70	.95	2.42	3.57	2.40	16.44	74.8
McGrath	.56	.74	1.99	2.99	2.65	.71	16.08	.66	.80	1.70	2.28	3.28	2.14	16.74	65.0
Juneau Arpt.	2.11	3.27	2.44	4.25	6.19	11.61	54.33	2.99	3.31	2.93	4.69	5.00	6.90	54.67	62.5
Haines	1.71	.60	1.34	1.51	5.52	11.98	58.79	2.26	1.53	1.06	1.58	1.98	5.59	52.86	54.7
Kenny Lake	.04	.48	1.27	1.92	2.01	1.26	13.01	.19	.63	1.51	2.19	1.27	.96	10.91	32.2

1/ See footnote on Page 27.

SEASON GROWING DEGREE DAYS (Base 40°F) - ALASKA [1/]

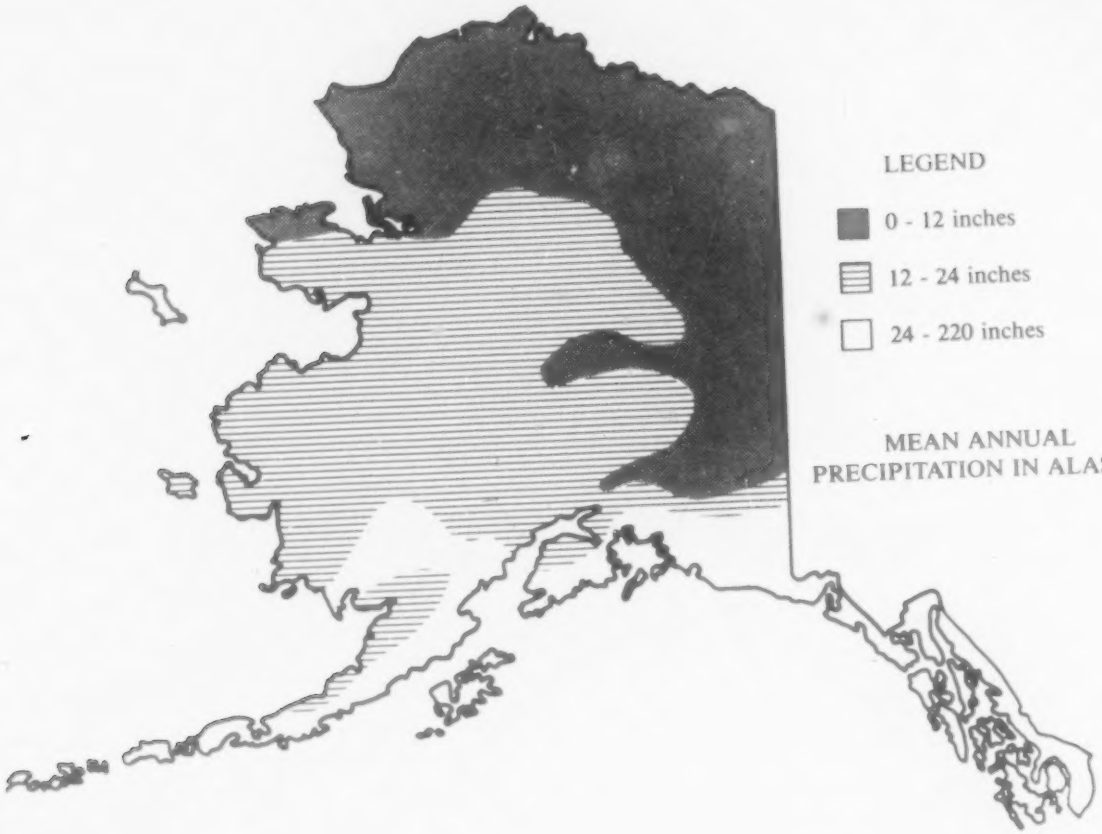
Station	May		Jun		Jul		Aug		Sep		Total	
	1981	Avg.	1981	Avg.	1981	Avg.	1981	Avg.	1981	Avg.	1981	Avg.
TANANA VALLEY												
Fairbanks Arpt.	350	226	567	570	512	642	422	477	123	132	1974	2047
Univ. Exp. Sta.	409	220	477	546	505	626	419	477	93	141	1903	2010
Salcha	396	267	456	501	552	645	431	561	81	159	1916	2133
Big Delta	440	195	477	513	555	601	477	459	99	108	2048	1876
Clearwater	362	236	426	435	515	580	412	456	42	96	1757	1803
MATANUSKA VALLEY												
Anchorage	331	192	414	438	539	555	459	493	237	243	1980	1921
PMC-Butte	365	257	438	444	508	561	431	515	186	225	1928	2002
Palmer AES	362	242	447	435	502	549	415	502	198	264	1924	1992
Mat. Exp. Sta.	375	217	426	450	508	543	431	471	195	231	1935	1912
Wasilla 3S	378	267	420	456	589	592	502	546	237	282	2126	2143
Talkeetna	310	146	420	450	505	555	446	453	174	183	1855	1787
KENAI PENINSULA												
Homer Arpt.	213	71	279	261	450	381	425	384	225	210	1592	1307
Kasilof	136	78	234	261	428	415	357	391	111	180	1266	1325
Sterling	220	152	270	321	412	468	329	431	84	189	1315	1561
OTHER AREAS												
Kodiak	223	99	366	291	543	437	499	462	306	300	1937	1589
Nome	84	-	306	165	301	313	338	285	33	63	1062	826
McGrath	344	127	423	471	484	564	400	419	39	114	1690	1695
Juneau Arpt.	214	211	429	396	499	487	493	443	276	276	1911	1813
Haines	412	301	489	459	543	549	533	555	294	312	2271	2176
Kenny Lake	288	158	387	393	468	512	375	437	24	129	1542	1629

1/ See footnote on Page 27.

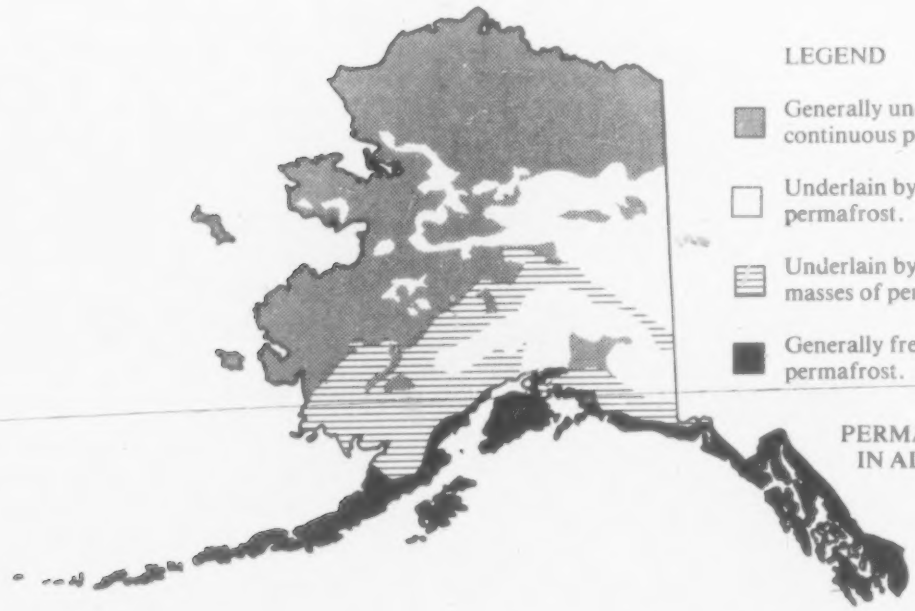


MEAN ALASKAN JANUARY
MINIMUM TEMPERATURES, °F

MEAN ALASKAN JULY
MAXIMUM TEMPERATURES, °F



MEAN ANNUAL
PRECIPITATION IN ALASKA


LEGEND
Generally underlain by continuous permafrost.
Underlain by discontinuous permafrost.
Underlain by isolated masses of permafrost.
Generally free from permafrost.

PERMAFROST
IN ALASKA

"WHY CROP AND LIVESTOCK REPORTS"

A man's judgment is no better than his facts and crop and livestock reports are the basic facts of Agriculture.

They aid farmers in planning their production and marketing and provide them with an orderly market.

They are the basis for analysis of agriculture and other business conditions.

They enable railroads to make better distribution of cars for moving farm products.

They give producers the same foresight to future price trends that organized dealers possess.

They are a check on fluctuation in price by removing uncertainty of supply.

They are the best basis for adjusting supply to demand which is highly essential if maximum price is to prevail.

They aid farm organizations, schools and others in planning constructive programs.

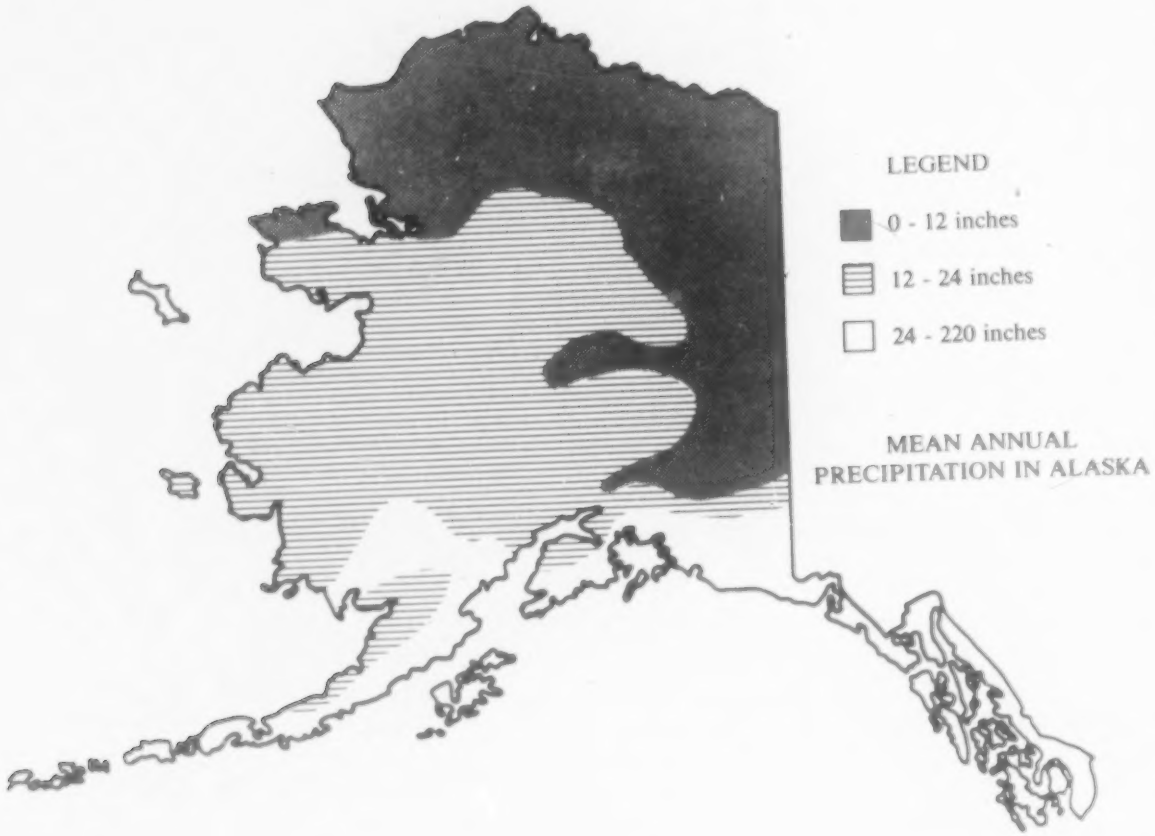
They give information on surplus and deficit areas of production making possible a more economical distribution of products.

They are a guide to farm resources and for developing new resources such as irrigation, electric power, location of food processing and other factories.

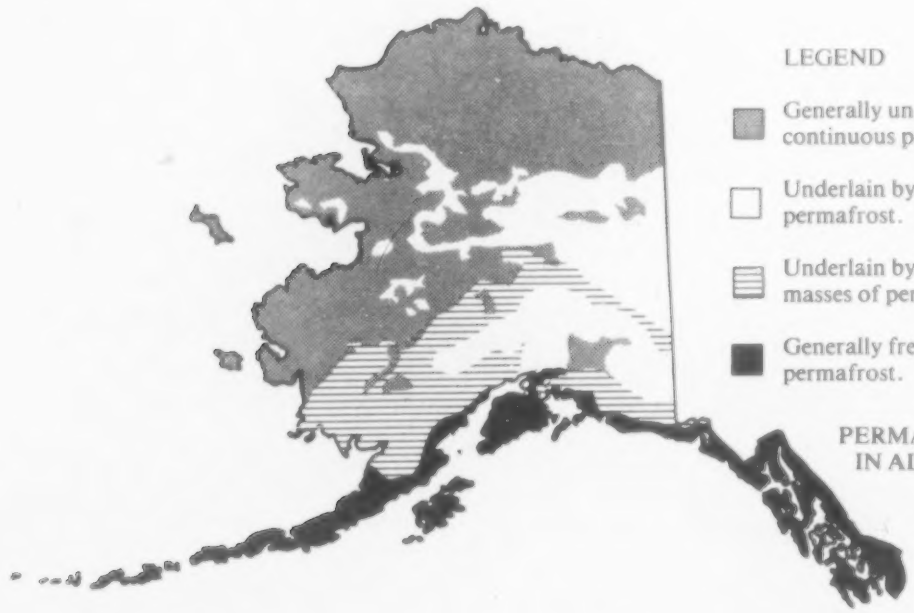
They reduce uncertainty which limits speculation in farm products. Speculation adds to the cost of marketing.

They indicate potential buying power enabling manufactures to meet the probable demand.

They provide an accurate, reliable, unbiased picture of Alaska's agriculture and furnish a sound basis for judgment and action by farmers, other individuals, business men, transportation agencies, crop and livestock interests, and governmental agencies.



MEAN ANNUAL
PRECIPITATION IN ALASKA


LEGEND
Generally underlain by continuous permafrost.
Underlain by discontinuous permafrost.
Underlain by isolated masses of permafrost.
Generally free from permafrost.

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